	Application No.	Applicant(s)	
Notice of Allowability	10/782,838 Examiner	YOKOKAWA ET AL.	-/m
•		2010	
	Chuong A. Luu	2818	
The MAILING DATE of this communication apperature of the communication appearance of the co	(OR REMAINS) CLOSED in this ap) or other appropriate communicatio IGHTS. This application is subject to	oplication. If not included n will be mailed in due cou	urse. THIS
1. This communication is responsive to 1/11/2006.			
2. The allowed claim(s) is/are <u>1-8</u> .			
 Acknowledgment is made of a claim for foreign priority un a)	nder 35 U.S.C. § 119(a)-(d) or (f).		
 Certified copies of the priority documents have 			
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
Copies of the certified copies of the priority do	cuments have been received in this	national stage application	n from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requi	rements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached	
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s)	5 	D. I. A. A. III II (DTO A	(FO)
1. Notice of References Cited (PTO-892)		Patent Application (PTO-1	52)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da		
 Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 		ment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowa	ince
of Biological Material	9. Other		

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DETAILED ACTION

Allowable Subject Matter

Claims 1-8 are allowed.

The following is an examiner's statement of reasons for allowance: The examiner has reviewed the prior art in light of applicant's claimed invention and finds that the combined claims define over the prior art. The cited prior art does not disclose or suggest a semiconductor device inter alia the limitations "...implanting at least one kind of ion of hydrogen ion and a rare gas ion into the surface portion of a bond wafer to form an ion-implanted layer, bonding the bond wafer and a base wafer each other through an oxide film, and delaminating the resultant bonded wafer at the ion-implanted layer, wherein assuming that X [nm] represents the thickness of the buried oxide film and Y [nm] represents the thickness of the SOI layer in the SOI wafer immediately after delaminating at the ion-implanted layer, when the thickness X of the buried oxide film is X≤100, in forming the ion-implanted layer, the ion implantation is carried out with the ion implantation conditions being such that the sum X+Y of the thickness of the buried oxide film and the thickness of the SOI layer satisfies X+Y>1500-14X, after which the bonding process and the delaminating process are carried out and, thereafter, a thinning treatment of the SOI layer is carried out to make the SOI layer into a thin film having a predetermined thickness...".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/782,838 Page 3

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong A. Luu whose telephone number is (571) 272-1902. The examiner can normally be reached on M-F (6:15-2:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong Anh Luu Patent Examiner February 21, 2006